

Amendments to the Specification

Please insert at page 7, after line 13 of text, the following paragraphs:

Brief Description of the Drawings

Figure 1 depicts an arrangement for preparing a biochip or/and for manipulating or/and for studying biologically or biochemically functional materials immobilized thereon.

Figure 2 is a diagram of an arrangement for preparing, studying and/or manipulating a reaction carrier.

Figure 3 is a diagram showing a variation of the arrangement in Figure 2, with a light path lacking the deflection element shown in that Figure.

Figure 4 is a diagram of a further embodiment of an arrangement for preparing, studying or/and manipulating a carrier.

Figure 5 is a diagram of an arrangement in which the detection module with sensor matrix is set up for reflected light or backlight observation of the reaction carrier.

Figure 6 shows a section through an embodiment of a carrier in which the illumination matrix is part of the carrier body.

Figure 7 is a simplified diagram of a light-emission detector in the form of a sandwich structure composed of a light valve matrix, transparent sample carrier with sample material and CCD matrix.

Figure 8 depicts another arrangement for the spatially resolved photochemical synthesis of polymer probes on a carrier and/or for manipulating and/or studying immobilized, biological, biochemically functional materials.

Figure 9 shows an embodiment of a device in which the

illumination pattern generated by the illumination matrix is a reduced size and the optical image is reduced by guiding the beam in a fused fiber optic taper.

Figure 10 shows an embodiment as for Figure 9, but where the reduction is achieved using a suitable lens system.

Figure 11 shows an embodiment as for Figure 9, but where the reduction is achieved using a fused fiber optic taper and an optical lens system.

Figure 12 shows an arrangement with a transparent carrier filled with colored microparticles.

Figure 13 depicts a carrier body.

Figure 14 is a diagram taken from the data sheet:
"Lichtmodulatoren mit viskoelastischen Steuerschichten."

Figure 15 is a diagram taken from the data sheet:
"Lichtmodulatoren mit mikromechanischen Spiegelarrays."

Please replace the first full paragraph of page 19, at lines 5-6 of the text, with the following paragraph:

The invention further relates to a light-emission detector
~~as claimed in any of claims 41-43.~~